

STANDARD FORM NO. 64

**SECRET**

# Office Memorandum • UNITED STATES GOVERNMENT

TO : Chief, Research & Development Branch, OC-E      SP/EA 6-245  
DATE: 3 December 1956

FROM : Chief, ELINT Activities Branch, OC-SP

SUBJECT: Supplemental Programs Division Development Projects

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1. In confirmation of recent discussions between [redacted] of your Division and [redacted] of this Division, certain priorities and requirements have been established regarding existing projects presently under development. A review of present projects indicates the following should be accomplished in the stated order:

1. Silver Cell Battery Charger f u w E/AC-6
2. Stromberg - Carlson modification
3. Fixed Frequency Oscillator E/IN-3
4. Audio Frequency Oscillator - Variable E/IN-1
5. Fixed Frequency Oscillators - Per ENG 6-1273 & SPM 6-606
6. Etched Antennas

2. Discussions held on the above projects have established the following requirements for the items as follows:

- a. Silver Cell Battery Charger - To be used for charging of battery packs as developed in the E/AC-6. Have an input power capability of 90-270 VAC at 50-60 cps. Output regulated and limited to provide charging voltage at  $\pm 1.5\%$  and currents limited to a safe rate as specified by the Yardney Electric Corporation. Charging to be performed preferably on the battery pack rather than individual cell. Investigation of possibility of regulating the supply by use of gas cells.
- b. Fixed Frequency Osc. E/IN-3 - Fabrication of 10 ea. tuning fork osc. per prototype returned under SPD 6-606 incorporating the modifications as outlined in the above memo. In addition, continue on a parallel to establish the availability and usefulness of smaller tuning forks, ie., Hamilton Watch Company and low frequency crystals, ie., HEEMCO.

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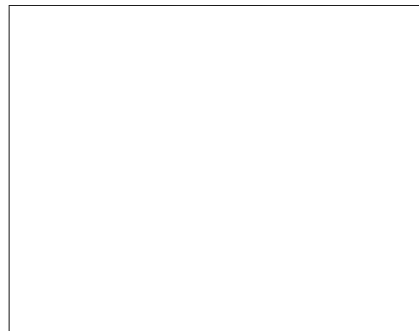
- c. Variable Frequency Oscillator E/IN-1 - Fabricate 5 ea units per prototype and as outlined on R&D Fab Drawing #2510.
- d. Fixed Frequency Oscillator - (Unijunction transistor) Development and Fabrication of 5 ea unijunction transistor reference oscillators as outlined in SPM 6-606, Para 2 and ENG 6-1273, Para 4.
- e. Continuation on a time available basis in the establishment of feeds and antennae configuration of broad band etched antennae.

3. In regard to Projects currently at the completion stage, ie., E/AC-6, since this Division had an immediate operational requirement necessitating the delivery of one E/AC-6 with an extra battery pack, it is requested that you procure an additional battery pack to complete the required number of packs for the remaining units momentarily to be delivered.

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*Enclosure*



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